# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/622,893_
Source: _I-TWO_
Date Processed by STIC: _12/23/03_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
*Effective 12/13/03*: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
**http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio **(<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
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Revised 10/08/03

IFWO

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          RAW SEQUENCE LISTING                    DATE: 12/30/2003
          PATENT APPLICATION:  US/10/622,893      TIME: 09:13:52

             Input Set : N:\Crf4\12232003\J622893.raw
             Output Set: N:\CRF4\12302003\J622893.raw

       1 <110> APPLICANT: Yuan, Chong-Sheng
       2        Datta, Abhijit
       3        Wang, Yuping
       4 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
       5        DETERMINATION OF GLYCATED PROTEINS
       6 <130> FILE REFERENCE: 466992001300
       7 <140> CURRENT APPLICATION NUMBER: US/10/622,893
C-->   8 <141> CURRENT FILING DATE: 2003-07-17
       9 <160> NUMBER OF SEQ ID NOS: 23
      10 <170> SOFTWARE: FastSEQ for Windows Version 4.0
      12 <210> SEQ ID NO: 1
      13 <211> LENGTH: 12
      14 <212> TYPE: PRT
      15 <213> ORGANISM: Artificial Sequence
      16 <220> FEATURE:
      17 <223> OTHER INFORMATION: peptide
      18 <400> SEQUENCE: 1
      19        Met Gly Gly Ser Gly Asp Asp Asp Asp Leu Ala Leu
      20         1               5                  10
      22 <210> SEQ ID NO: 2
      23 <211> LENGTH: 6
      24 <212> TYPE: PRT
      25 <213> ORGANISM: Artificial Sequence
      26 <220> FEATURE:
      27 <223> OTHER INFORMATION: FAD cofactor-binding consensus sequence
      28 <220> FEATURE:
      29 <221> NAME/KEY: VARIANT
      30 <222> LOCATION: 2, 4, 5
      31 <223> OTHER INFORMATION: Xaa = Any Amino Acid
      32 <400> SEQUENCE: 2
W-->  33        Gly Xaa Gly Xaa Xaa Gly
      34         1               5
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      37 <211> LENGTH: 437
      38 <212> TYPE: PRT
      39 <213> ORGANISM: Artificial Sequence
      40 <220> FEATURE:
      41 <223> OTHER INFORMATION: peptide
      42 <400> SEQUENCE: 3
      43        Ala Val Thr Lys Ser Ser Ser Leu Leu Ile Val Gly Ala Gly Thr Trp
      44         1               5                  10                  15
      45        Gly Thr Ser Thr Ala Leu His Leu Ala Arg Arg Gly Tyr Thr Asn Val
      46                        20                  25                  30
```

*(handwritten annotations:)* Does Not Comply Corrected Diskette Needed

*— Invalid Response. Note (P.S. 1,3 4,5) a Valid Response For < 2137.*

*— Invalid Response, Not a Valid Response For < 2137*

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47 | Thr | Val | Leu | Asp | Pro | Tyr | Pro | Val | Pro | Ser | Ala | Ile | Ser | Ala | Gly | Asn |
| 48 | | 35 | | | | 40 | | | | | 45 | | | | |
| 49 | Asp | Val | Asn | Lys | Val | Ile | Ser | Ser | Gly | Gln | Tyr | Ser | Asn | Asn | Lys | Asp |
| 50 | | 50 | | | | 55 | | | | | 60 | | | | |
| 51 | Glu | Ile | Glu | Val | Asn | Glu | Ile | Leu | Ala | Glu | Glu | Ala | Phe | Asn | Gly | Trp |
| 52 | 65 | | | | 70 | | | | 75 | | | | | | 80 |
| 53 | Lys | Asn | Asp | Pro | Leu | Phe | Lys | Pro | Tyr | Tyr | His | Asp | Thr | Gly | Leu | Leu |
| 54 | | | | | 85 | | | | 90 | | | | | 95 | |
| 55 | Met | Ser | Ala | Cys | Ser | Gln | Glu | Gly | Leu | Asp | Arg | Leu | Gly | Val | Arg | Val |
| 56 | | | | 100 | | | | | 105 | | | | 110 | | |
| 57 | Arg | Pro | Gly | Glu | Asp | Pro | Asn | Leu | Val | Glu | Leu | Thr | Arg | Pro | Glu | Gln |
| 58 | | | 115 | | | | | 120 | | | | | 125 | | |
| 59 | Phe | Arg | Lys | Leu | Ala | Pro | Glu | Gly | Val | Leu | Gln | Gly | Asp | Phe | Pro | Gly |
| 60 | | | 130 | | | | | 135 | | | | | 140 | | |
| 61 | Trp | Lys | Gly | Tyr | Phe | Ala | Arg | Ser | Gly | Ala | Gly | Trp | Ala | His | Ala | Arg |
| 62 | 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| 63 | Asn | Ala | Leu | Val | Ala | Ala | Ala | Arg | Glu | Ala | Gln | Arg | Met | Gly | Val | Lys |
| 64 | | | | | 165 | | | | 170 | | | | | 175 | |
| 65 | Phe | Val | Thr | Gly | Thr | Pro | Gln | Gly | Arg | Val | Val | Thr | Leu | Ile | Phe | Glu |
| 66 | | | | 180 | | | | | 185 | | | | 190 | | |
| 67 | Asn | Asn | Asp | Val | Lys | Gly | Ala | Val | Thr | Gly | Asp | Gly | Lys | Ile | Trp | Arg |
| 68 | | | | 195 | | | | | 200 | | | | 205 | | |
| 69 | Ala | Glu | Arg | Thr | Phe | Leu | Cys | Ala | Gly | Ala | Ser | Ala | Gly | Gln | Phe | Leu |
| 70 | | 210 | | | | | 215 | | | | | 220 | | | |
| 71 | Asp | Phe | Lys | Asn | Gln | Leu | Arg | Pro | Thr | Ala | Trp | Thr | Leu | Val | His | Ile |
| 72 | 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| 73 | Ala | Leu | Lys | Pro | Glu | Glu | Arg | Ala | Leu | Tyr | Lys | Asn | Ile | Pro | Val | Ile |
| 74 | | | | | 245 | | | | | 250 | | | | 255 | |
| 75 | Phe | Asn | Ile | Glu | Arg | Gly | Phe | Phe | Phe | Glu | Pro | Asp | Glu | Glu | Arg | Gly |
| 76 | | | | 260 | | | | | 265 | | | | 270 | | |
| 77 | Glu | Ile | Lys | Ile | Cys | Asp | Glu | His | Pro | Gly | Tyr | Thr | Asn | Met | Val | Gln |
| 78 | | | 275 | | | | | 280 | | | | | 285 | | |
| 79 | Ser | Ala | Asp | Gly | Thr | Met | Met | Ser | Ile | Pro | Phe | Glu | Lys | Thr | Gln | Ile |
| 80 | | 290 | | | | | 295 | | | | | 300 | | | |
| 81 | Pro | Lys | Glu | Ala | Glu | Thr | Arg | Val | Arg | Ala | Leu | Leu | Lys | Glu | Thr | Met |
| 82 | 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| 83 | Pro | Gln | Leu | Ala | Asp | Arg | Pro | Phe | Ser | Phe | Ala | Arg | Ile | Cys | Trp | Cys |
| 84 | | | | | 325 | | | | | 330 | | | | | 335 | |
| 85 | Ala | Asp | Thr | Ala | Asn | Arg | Glu | Phe | Leu | Ile | Asp | Arg | His | Pro | Gln | Tyr |
| 86 | | | | 340 | | | | | 345 | | | | | 350 | |
| 87 | His | Ser | Leu | Val | Leu | Gly | Cys | Gly | Ala | Ser | Gly | Arg | Gly | Phe | Lys | Tyr |
| 88 | | | 355 | | | | | 360 | | | | | 365 | | |
| 89 | Leu | Pro | Ser | Ile | Gly | Asn | Leu | Ile | Val | Asp | Ala | Met | Glu | Gly | Lys | Val |
| 90 | | 370 | | | | | 375 | | | | | 380 | | | |
| 91 | Pro | Gln | Lys | Ile | His | Glu | Leu | Ile | Lys | Trp | Asn | Pro | Asp | Ile | Ala | Ala |
| 92 | 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| 93 | Asn | Arg | Asn | Trp | Arg | Asp | Thr | Leu | Gly | Arg | Phe | Gly | Gly | Pro | Asn | Arg |
| 94 | | | | | 405 | | | | | 410 | | | | | 415 | |
| 95 | Val | Met | Asp | Phe | His | Asp | Val | Lys | Glu | Trp | Thr | Asn | Val | Gln | Tyr | Arg |

```
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97       Asp Ile Ser Lys Leu
98                435
100 <210> SEQ ID NO: 4
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102 <212> TYPE: PRT
103 <213> ORGANISM: Artificial Sequence          ⌇ same error
104 <220> FEATURE:
105 <223> OTHER INFORMATION: (peptide)
106 <400> SEQUENCE: 4
107      Lys Gly Glu Leu Glu Gly Leu Pro Ile Pro Asn Pro Leu Leu Arg Thr
108      1               5               10              15
109      Gly
111 <210> SEQ ID NO: 5
112 <211> LENGTH: 472
113 <212> TYPE: PRT
114 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: chimeric protein
117 <400> SEQUENCE: 5
118      Met Gly Gly Ser Gly Asp Asp Asp Asp Leu Ala Leu Ala Val Thr Lys
119      1               5               10              15
120      Ser Ser Ser Leu Leu Ile Val Gly Ala Gly Thr Trp Gly Thr Ser Thr
121                  20              25              30
122      Ala Leu His Leu Ala Arg Arg Gly Tyr Thr Asn Val Thr Val Leu Asp
123                  35              40              45
124      Pro Tyr Pro Val Pro Ser Ala Ile Ser Ala Gly Asn Asp Val Asn Lys
125          50              55              60
126      Val Ile Ser Ser Gly Gln Tyr Ser Asn Asn Lys Asp Glu Ile Glu Val
127      65              70              75              80
128      Asn Glu Ile Leu Ala Glu Glu Ala Phe Asn Gly Trp Lys Asn Asp Pro
129                  85              90              95
130      Leu Phe Lys Pro Tyr Tyr His Asp Thr Gly Leu Leu Met Ser Ala Cys
131                  100             105             110
132      Ser Gln Glu Gly Leu Asp Arg Leu Gly Val Arg Val Arg Pro Gly Glu
133                  115             120             125
134      Asp Pro Asn Leu Val Glu Leu Thr Arg Pro Glu Gln Phe Arg Lys Leu
135          130             135             140
136      Ala Pro Glu Gly Val Leu Gln Gly Asp Phe Pro Gly Trp Lys Gly Tyr
137      145             150             155             160
138      Phe Ala Arg Ser Gly Ala Gly Trp Ala His Ala Arg Asn Ala Leu Val
139                  165             170             175
140      Ala Ala Ala Arg Glu Ala Gln Arg Met Gly Val Lys Phe Val Thr Gly
141                  180             185             190
142      Thr Pro Gln Gly Arg Val Val Thr Leu Ile Phe Glu Asn Asn Asp Val
143                  195             200             205
144      Lys Gly Ala Val Thr Gly Asp Gly Lys Ile Trp Arg Ala Glu Arg Thr
145          210             215             220
146      Phe Leu Cys Ala Gly Ala Ser Ala Gly Gln Phe Leu Asp Phe Lys Asn
```

Input Set : N:\Crf4\12232003\J622893.raw
Output Set: N:\CRF4\12302003\J622893.raw

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147       225                230                235                240
148       Gln Leu Arg Pro Thr Ala Trp Thr Leu Val His Ile Ala Leu Lys Pro
149                          245                250                255
150       Glu Glu Arg Ala Leu Tyr Lys Asn Ile Pro Val Ile Phe Asn Ile Glu
151                          260                265                270
152       Arg Gly Phe Phe Phe Glu Pro Asp Glu Glu Arg Gly Glu Ile Lys Ile
153                          275                280                285
154       Cys Asp Glu His Pro Gly Tyr Thr Asn Met Val Gln Ser Ala Asp Gly
155                290                295                300
156       Thr Met Met Ser Ile Pro Phe Glu Lys Thr Gln Ile Pro Lys Glu Ala
157       305                310                315                320
158       Glu Thr Arg Val Arg Ala Leu Leu Lys Glu Thr Met Pro Gln Leu Ala
159                          325                330                335
160       Asp Arg Pro Phe Ser Phe Ala Arg Ile Cys Trp Cys Ala Asp Thr Ala
161                          340                345                350
162       Asn Arg Glu Phe Leu Ile Asp Arg His Pro Gln Tyr His Ser Leu Val
163                355                360                365
164       Leu Gly Cys Gly Ala Ser Gly Arg Gly Phe Lys Tyr Leu Pro Ser Ile
165                370                375                380
166       Gly Asn Leu Ile Val Asp Ala Met Glu Gly Lys Val Pro Gln Lys Ile
167       385                390                395                400
168       His Glu Leu Ile Lys Trp Asn Pro Asp Ile Ala Ala Asn Arg Asn Trp
169                          405                410                415
170       Arg Asp Thr Leu Gly Arg Phe Gly Gly Pro Asn Arg Val Met Asp Phe
171                          420                425                430
172       His Asp Val Lys Glu Trp Thr Asn Val Gln Tyr Arg Asp Ile Ser Lys
173                435                440                445
174       Leu Lys Gly Glu Leu Glu Gly Leu Pro Ile Pro Asn Pro Leu Leu Arg
175                450                455                460
176       Thr Gly His His His His His His
177       465                470
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179 <210> SEQ ID NO: 6
180 <211> LENGTH: 1419
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence     *Nucleotide*
183 <220> FEATURE:
184 <223> OTHER INFORMATION: (nuc)sequence encoding a chimeric protein
185 <400> SEQUENCE: 6

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186       atgggaggtt cgggtgacga tgatgacctg gctctcgccg tcactaagtc atcatctctc  60
187       ctgatcgttg gtgccgggac ttgggggcacc tcaacggctc tgcacctcgc gcgccgcgga 120
188       tataccaacg ttaccgtgct ggacccctat cctgtcccta gcgccatctc cgccggaaac 180
189       gacgtgaaca aagtcattag cagtggccaa tattcgaata caaagacga aatcgaagtg 240
190       aatgagatct ggcggaaga ggcgtttaac ggttggaaga cgacccgct tttcaaaccg 300
191       tattatcatg atacgggcct gctgatgtct gcttgctcgc aggagggcct ggatcgcctg 360
192       ggcgtccggg tacgtccggg cgaggatcct aatctggtgg aacttacccg cccggagcaa 420
193       tttcgtaaac tggccccgga aggcgtgttg caaggtgatt ttccgggttg gaaagggtac 480
194       tttgcgcgtt ccggcgctgg ctgggcacat gcaaggaatg ccttagtggc agcagcacgc 540
195       gaagcacagc gcatgggtgt aaaatttgtt actggcaccc cgcagggtcg tgtagtcacg 600
196       ttaatctttg aaaataacga tgtaaaaggt gccgttacgg gcgatggcaa aatttggaga 660
```

```
197       gcggaacgta cattcctgtg tgctggggct agcgcgggtc agttcctaga tttcaagaat 720
198       caacttcgac caaccgcttg gaccctggta cacattgcgt taaaaccgga agaacgtgcg 780
199       ttgtacaaaa atataccggt tatctttaac atcgaacggg ggttttttctt tgaacccgat 840
200       gaggagcgcg gtgagattaa aatatgcgat gaacacccgg gctacacaaa tatggtccag 900
201       agtgcagacg gcacgatgat gagcattccg ttcgaaaaaa cccagattcc aaaagaagcc 960
202       gaaacgcgcg ttcgggccct gctgaaagag acaatgcccc agctggcaga ccgtccattc 1020
203       agcttcgcac gcatttgctg gtgtgccgat accgcgaatc gcgaattcct gatagatcga 1080
204       catccgcagt accacagtct tgtgttgggc tgtggtgcga.gcggaagagg gtttaaatat 1140
205       ctgccttcta ttgggaatct cattgttgac gcgatggaag gtaaagtgcc gcaaaaaatt 1200
206       cacgaattaa tcaagtggaa cccggacatt gcggcgaacc gtaactggcg tgatactctg 1260
207       gggcgttttg gcggtccaaa tcgtgtgatg gattttcatg atgtgaagga atggaccaat 1320
208       gttcagtatc gtgatatttc caagctgaaa ggagagttgg aaggtaagcc aatccctaac 1380
209       ccgttactgc gcacaggcca tcaccatcat catcattaa                         1419
211  <210> SEQ ID NO: 7
212  <211> LENGTH: 39
213  <212> TYPE: PRT
214  <213> ORGANISM: Artificial Sequence
215  <220> FEATURE:
216  <223> OTHER INFORMATION: peptide
217  <220> FEATURE:
218  <221> NAME/KEY: VARIANT
219  <222> LOCATION: 12
220  <223> OTHER INFORMATION: Xaa = C or T
221  <400> SEQUENCE: 7
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*Same error*

```
W--> 222       Ala Pro Ser Ile Leu Ser Thr Glu Ser Ser Ile Xaa Val Ile Gly Ala
223             1               5                   10                  15
224            Gly Thr Trp Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
225                     20                  25                  30
226            Gly Gly Gly Gly Gly Gly Gly
227                     35
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230  <211> LENGTH: 39
231  <212> TYPE: PRT
232  <213> ORGANISM: Artificial Sequence
233  <220> FEATURE:
234  <223> OTHER INFORMATION: peptide
235  <400> SEQUENCE: 8
236            Ala Pro Ser Ile Leu Ser Thr Glu Ser Ser Ile Ile Val Ile Gly Ala
237             1               5                   10                  15
238            Gly Thr Trp Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
239                     20                  25                  30
240            Gly Gly Gly Gly Gly Gly Gly
241                     35
243  <210> SEQ ID NO: 9
244  <211> LENGTH: 39
245  <212> TYPE: PRT
246  <213> ORGANISM: Artificial Sequence
247  <220> FEATURE:
248  <223> OTHER INFORMATION: peptide
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*Same error*

*Same error*

RAW SEQUENCE LISTING ERROR SUMMARY     DATE: 12/30/2003
PATENT APPLICATION:  **US/10/622,893**     TIME: 09:13:53

Input Set : **N:\Crf4\12232003\J622893.raw**
Output Set: **N:\CRF4\12302003\J622893.raw**

<u>Please Note:</u>
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:2; Xaa Pos. 2,4,5
Seq#:7; Xaa Pos. 12

**VERIFICATION SUMMARY**          DATE: 12/30/2003
PATENT APPLICATION:  **US/10/622,893**       TIME: 09:13:53

Input Set : **N:\Crf4\12232003\J622893.raw**
Output Set: **N:\CRF4\12302003\J622893.raw**

L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0